



Presented to: USDA FSA APFO

The Geospatial Experts

2004 NAIP Post Season Meeting

Lessons Learned

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2004 Project Summary

- State of Pennsylvania
- 3,413 DOQQs
- 1 meter resolution
- 14,554 line miles
- 6,741 frames
- Upgraded to CIR
- Season June 1 – August 15

Flight Plan

- Initial Aircraft Allocations and Deployment
 - Aerial Acquisition Group (AAG)
 - 2 aircraft based in central VA
 - Allocated western 3/4 of state
 - Richard Crouse & Associates (RCA)
 - 1-2 aircraft based in MD
 - Allocated eastern 1/4 of state
- Aircraft Added to Complete Acquisition
 - Airborne Sensing (July – October)
 - Groupe Alta (August – September)
 - Surdex (September – November)

Flight Plan (cont.)

- Flight Management
 - Oversight by VARGIS PM
 - Daily coordination by AAG flight manager
- Film Processing by HAS
- Film Review by Flight Teams
- Titling and Database entry by Flight Team



Photo Center by Aerial Contractor

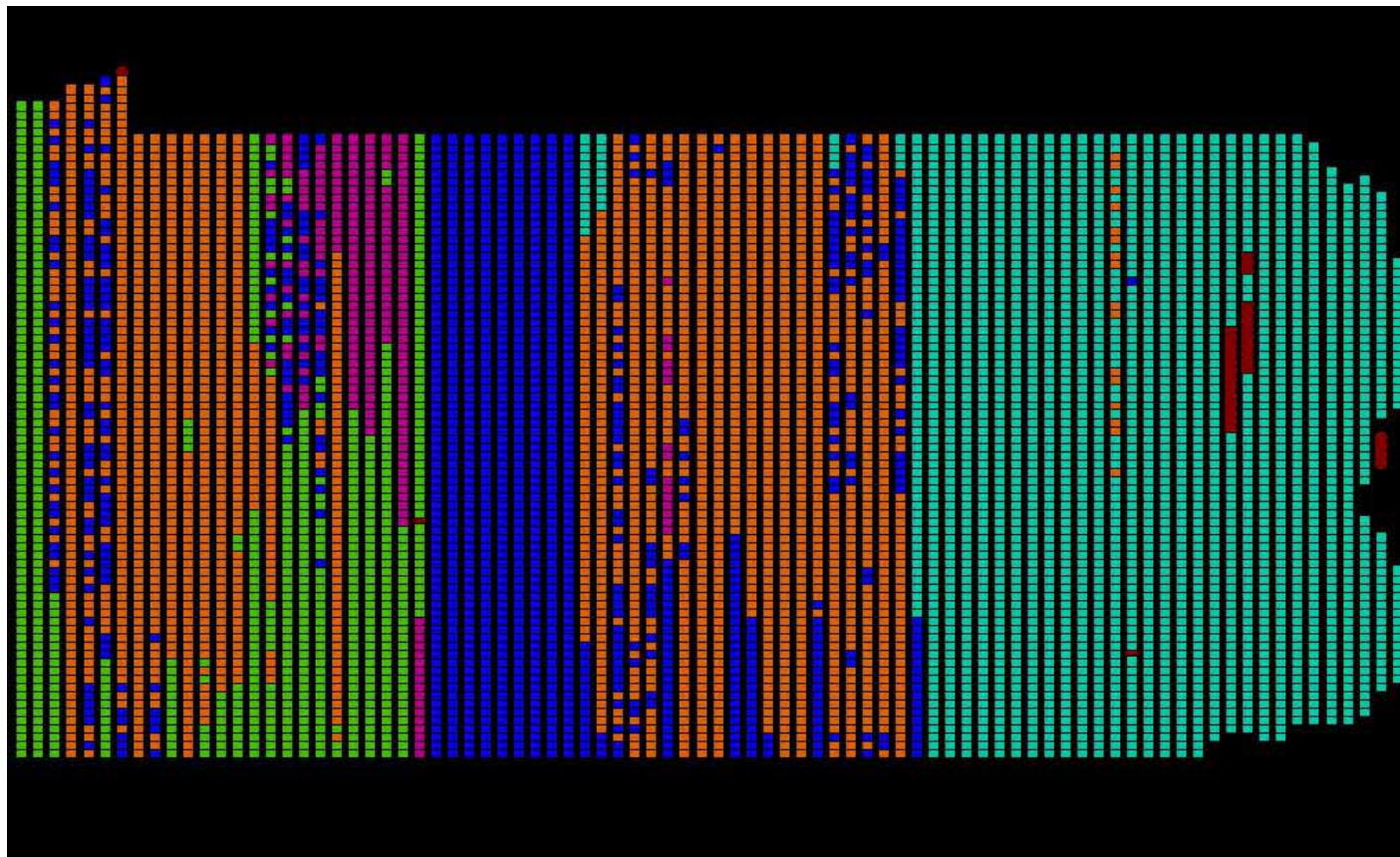
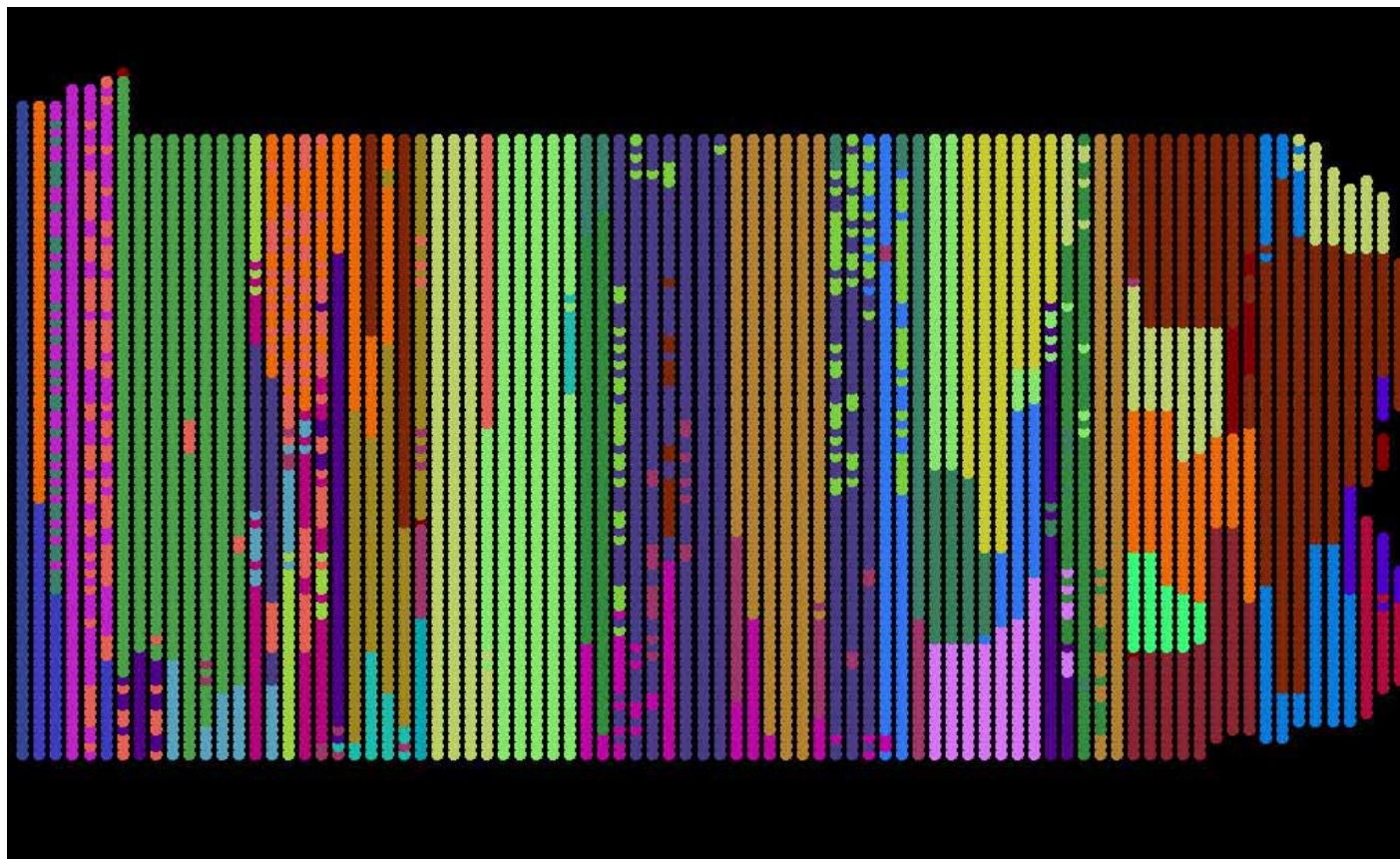




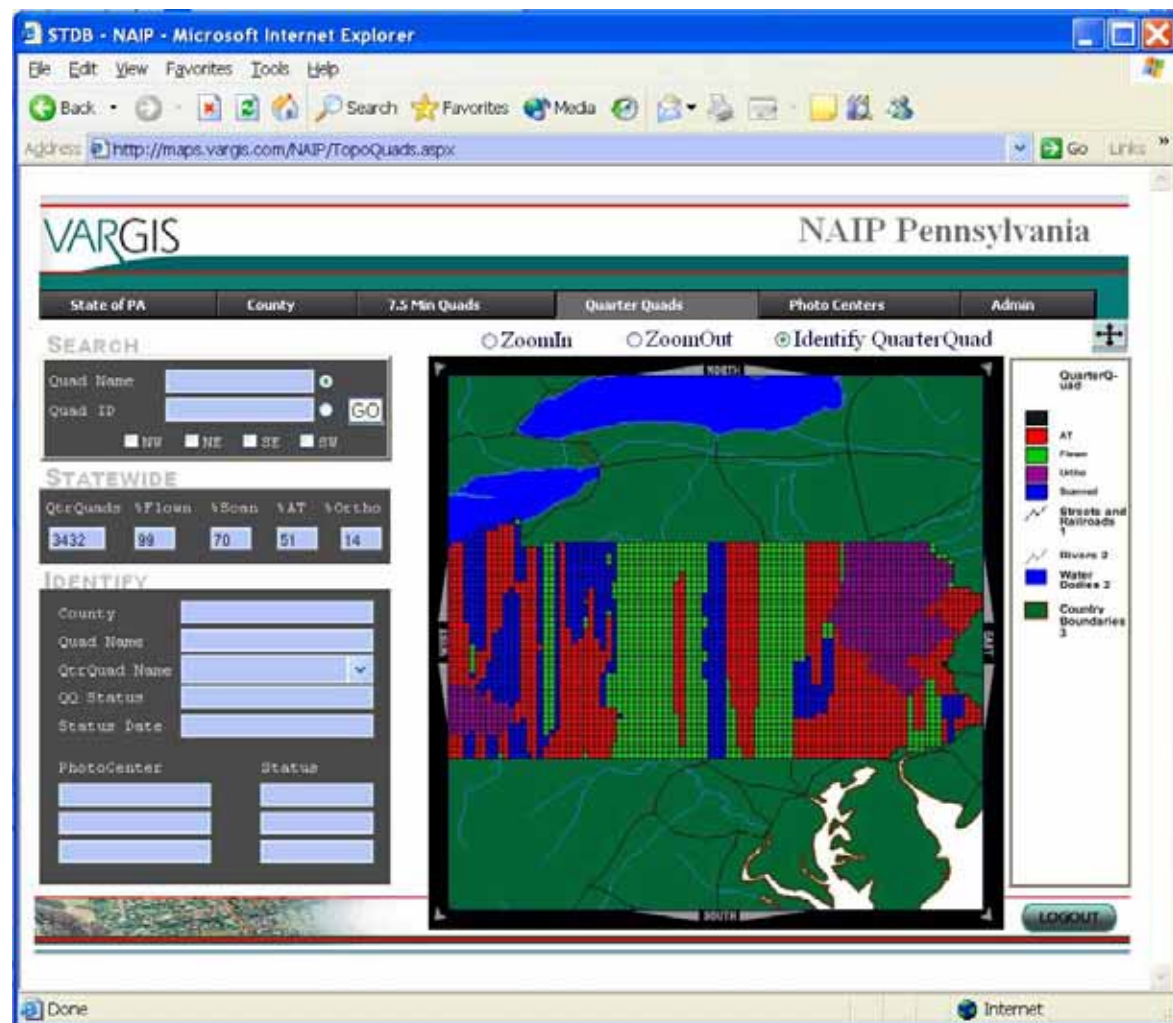
Photo Center by Date



Production Plan

- Approved/titled film is sent to production unit for:
 - Scanning
 - AT
 - Orthorectification
 - Color Balance
 - County Mosaic and Compress
 - Metadata
 - Independent QA
- Final Deliverables are sent to USDA

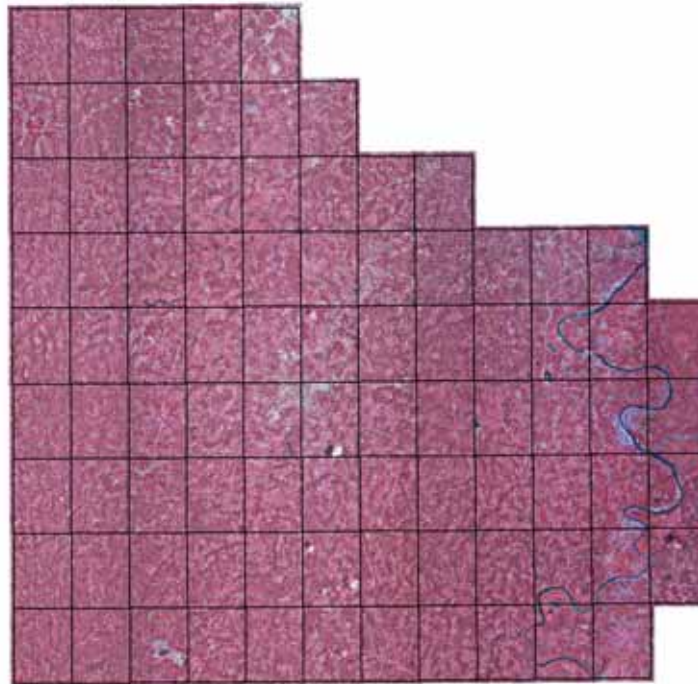
DOQQ Status



Original CIR – Washington and Greene Counties



Color Balanced CCM – Washington County



Challenges and Causes

- Unable to capture photography within season due to:
 - Poor weather
 - ATC-Presidential swing state
 - Insufficient aircraft allocated early in the season
 - Disproportionate reliance on an inexperienced aerial firm
- Unnecessary production delays due to:
 - Cloud cover not discovered in film review
 - Database and Titling errors
- Untimely delivery of complete counties due to:
 - Wide distribution of gaps in useable photography
 - Insufficient attention to optimizing production

Improvements for 2005

- Aerial Photography
 - Maximize aircraft allocations early in season
 - Assign a dedicated and experienced flight manager
 - Perform independent review of film, database and titling
 - Rely on experienced and financially stable firms
- Production
 - Optimize production for rapid completion of county units

Questions?

Thank You